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5.4.2 RF Output Power

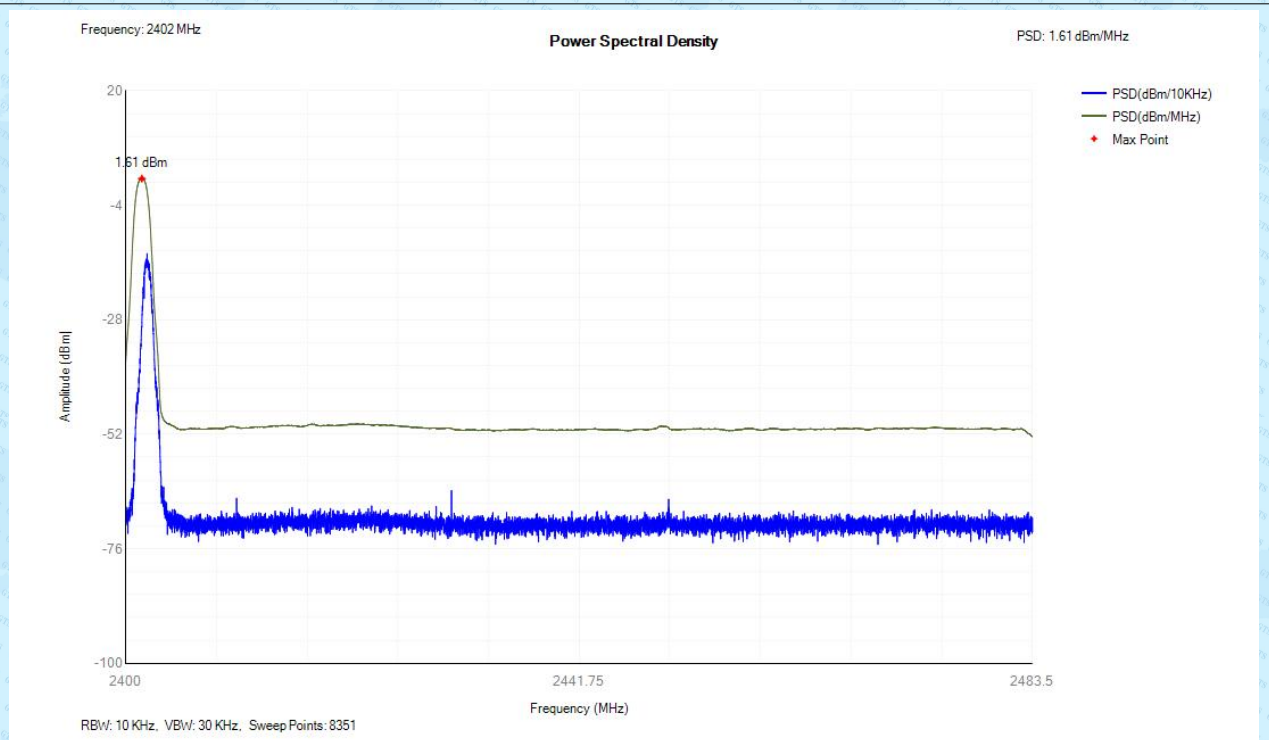
Condition	Mode	Frequency (MHz)	Antenna	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.69	80	1.48	20	Pass
		2440		0.87	81	1.66	20	Pass
		2480		0.56	81	1.35	20	Pass
	BLE 2M	2402		0.71	80	1.50	20	Pass
		2440		0.92	81	1.71	20	Pass
		2480		0.57	81	1.36	20	Pass

5.4.3 Power Spectral Density

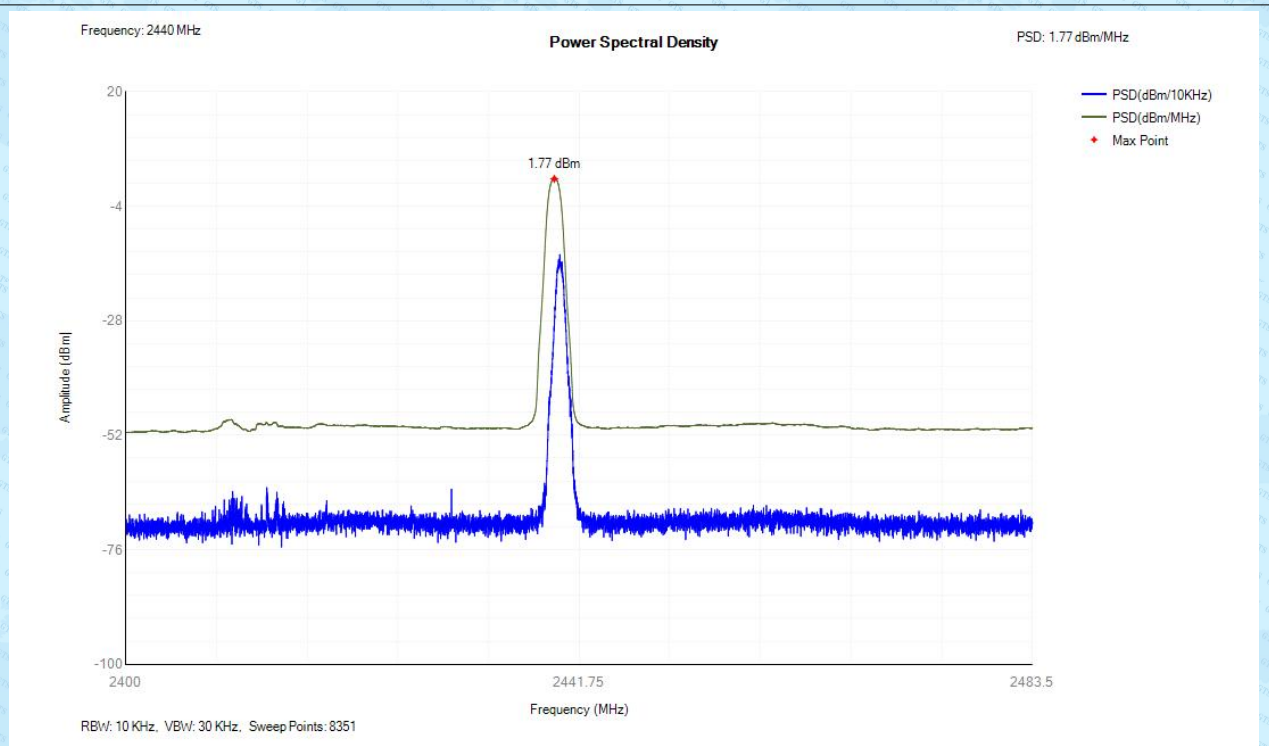
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	1.61	10	Pass
		2440		1.77	10	Pass
		2480		1.46	10	Pass
	BLE 2M	2402		0.61	10	Pass
		2440		0.81	10	Pass
		2480		0.45	10	Pass

Test Graphs

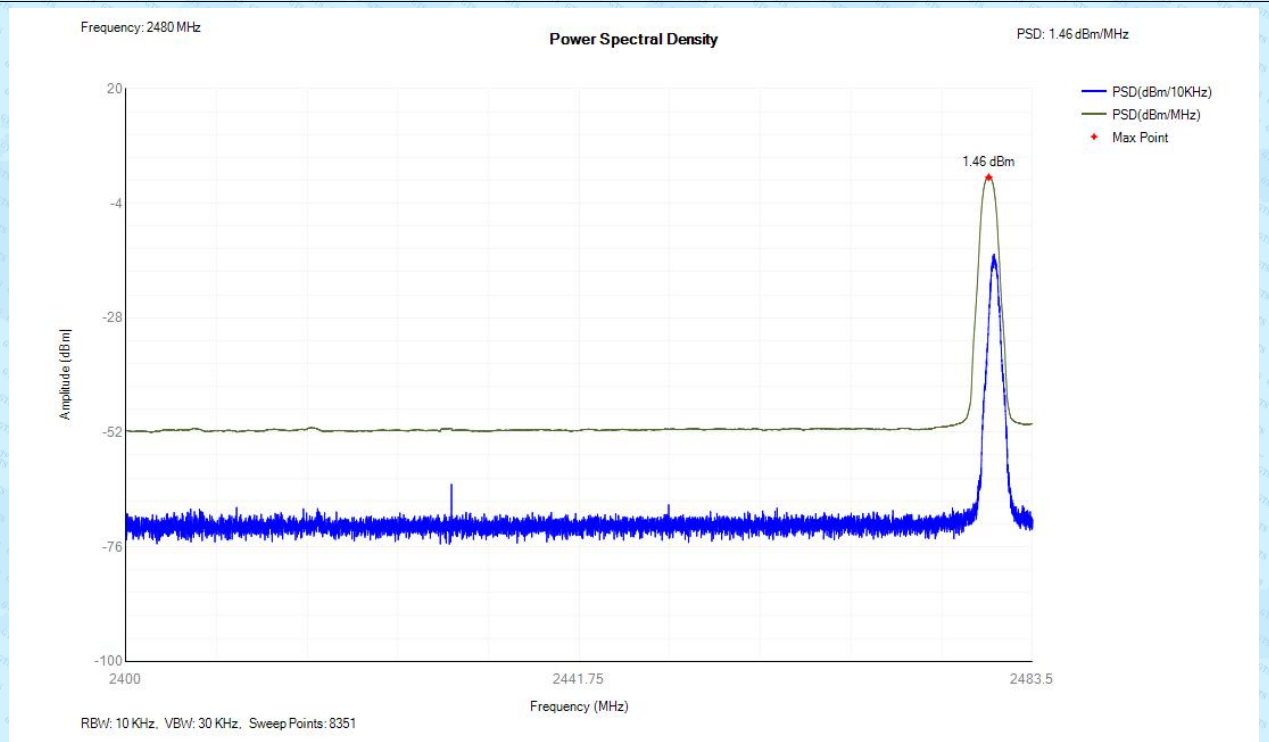
PSD NVNT BLE 1M 2402MHz Ant1



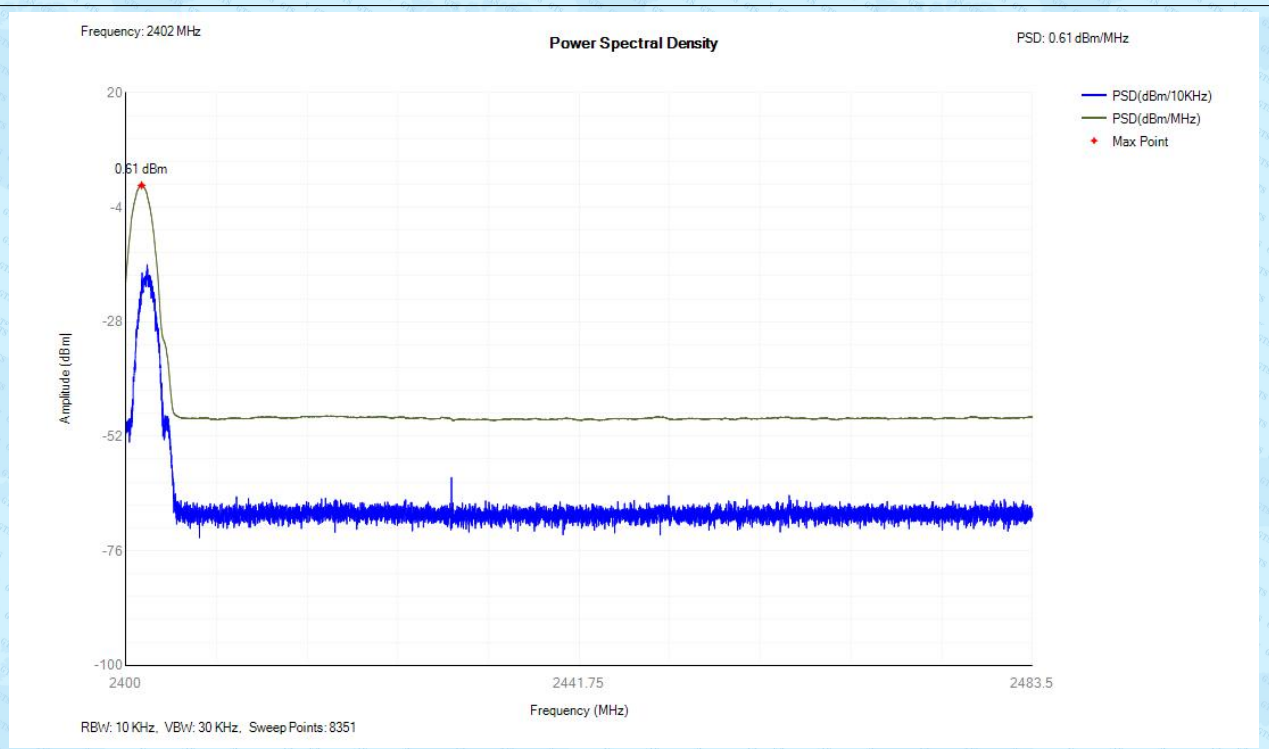
PSD NVNT BLE 1M 2440MHz Ant1



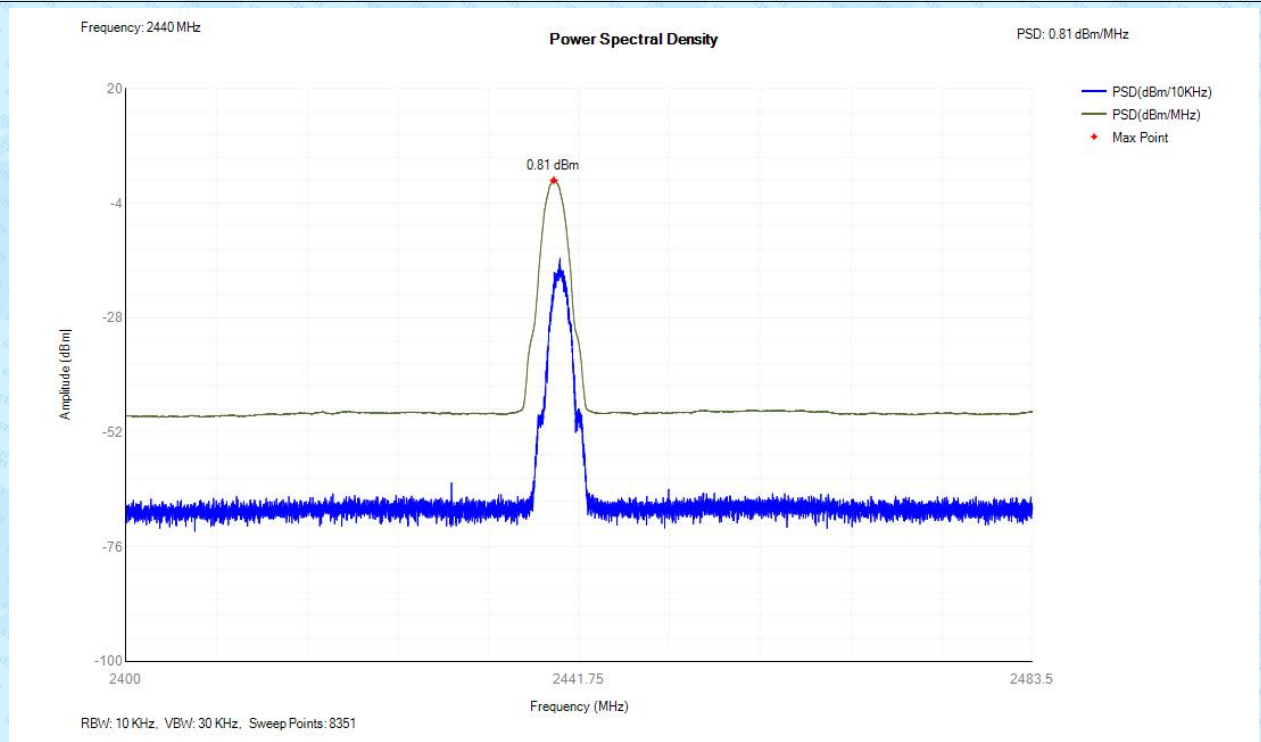
PSD NVNT BLE 1M 2480MHz Ant1



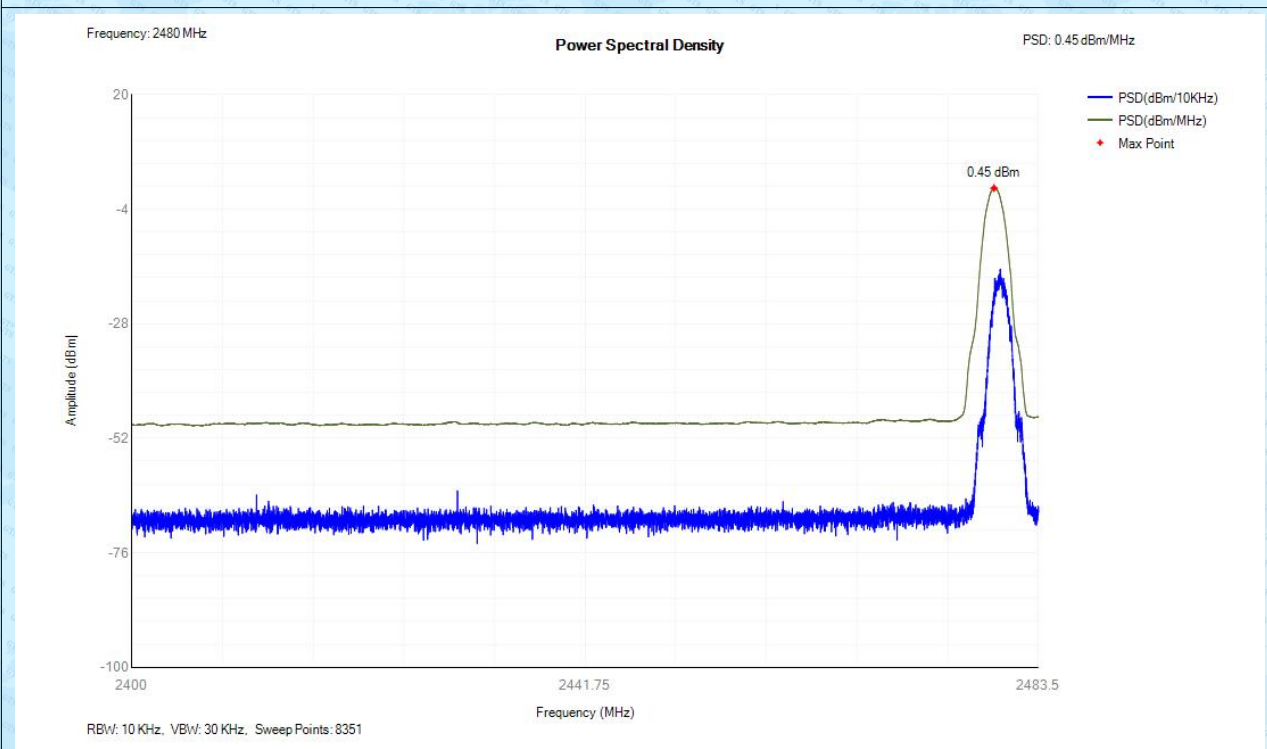
PSD NVNT BLE 2M 2402MHz Ant1



PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1

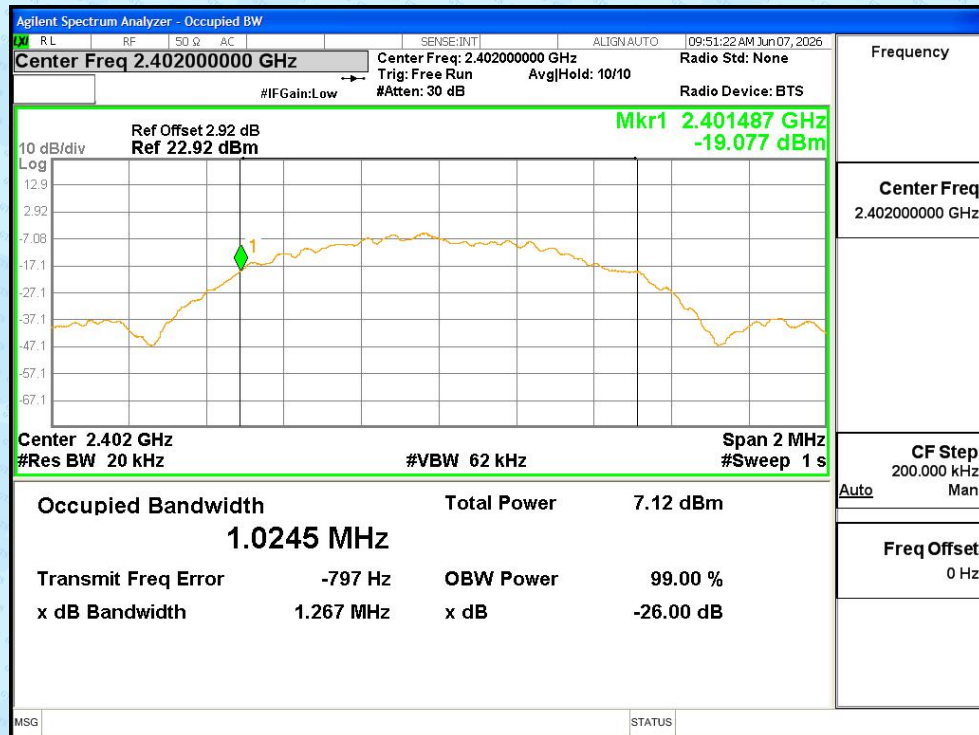


5.4.7 Occupied Channel Bandwidth

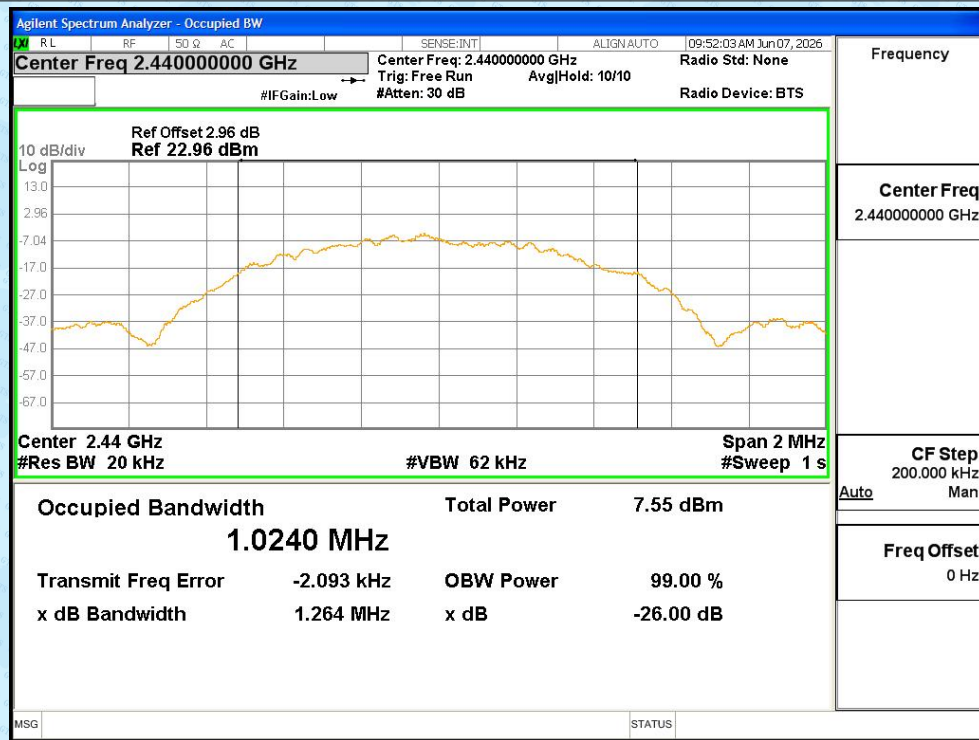
Condition	Mode	Frequency (MHz)	Antenna	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	2401.999	1.025	2401.487	2402.511	2400 - 2483.5MHz	Pass
		2440		2439.998	1.024	2439.486	2440.51	2400 - 2483.5MHz	Pass
		2480		2479.996	1.024	2479.484	2480.508	2400 - 2483.5MHz	Pass
	BLE 2M	2402		2402.006	2.025	2400.994	2403.019	2400 - 2483.5MHz	Pass
		2440		2440.002	2.024	2438.99	2441.014	2400 - 2483.5MHz	Pass
		2480		2480.002	2.025	2478.989	2481.014	2400 - 2483.5MHz	Pass

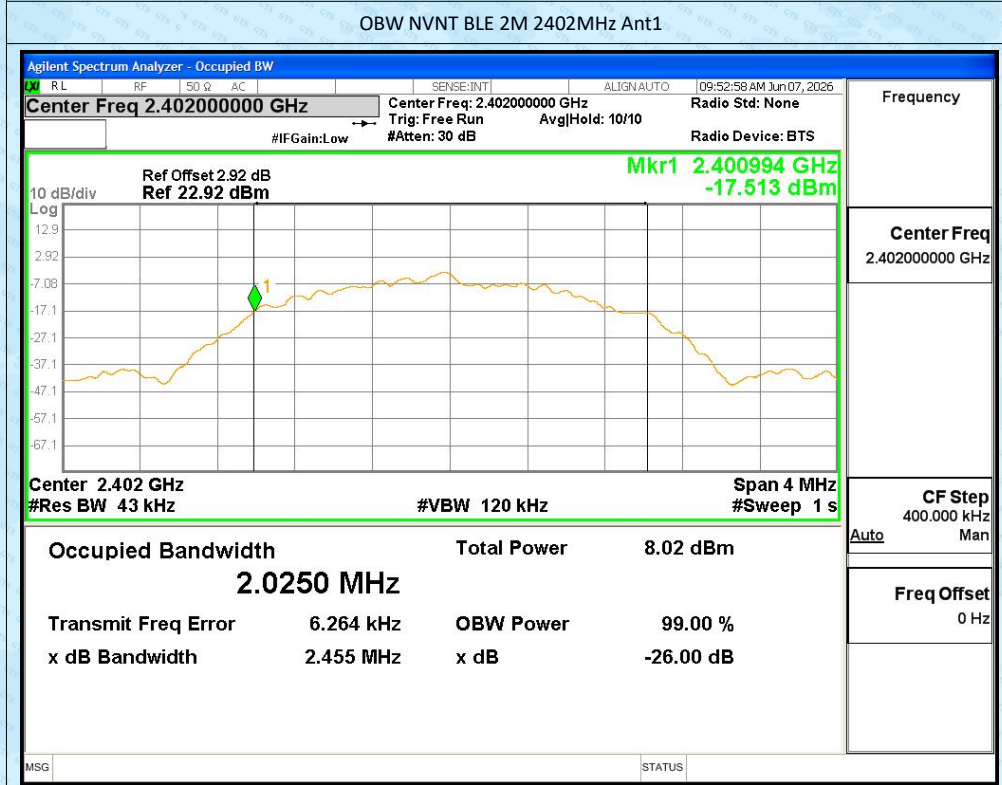
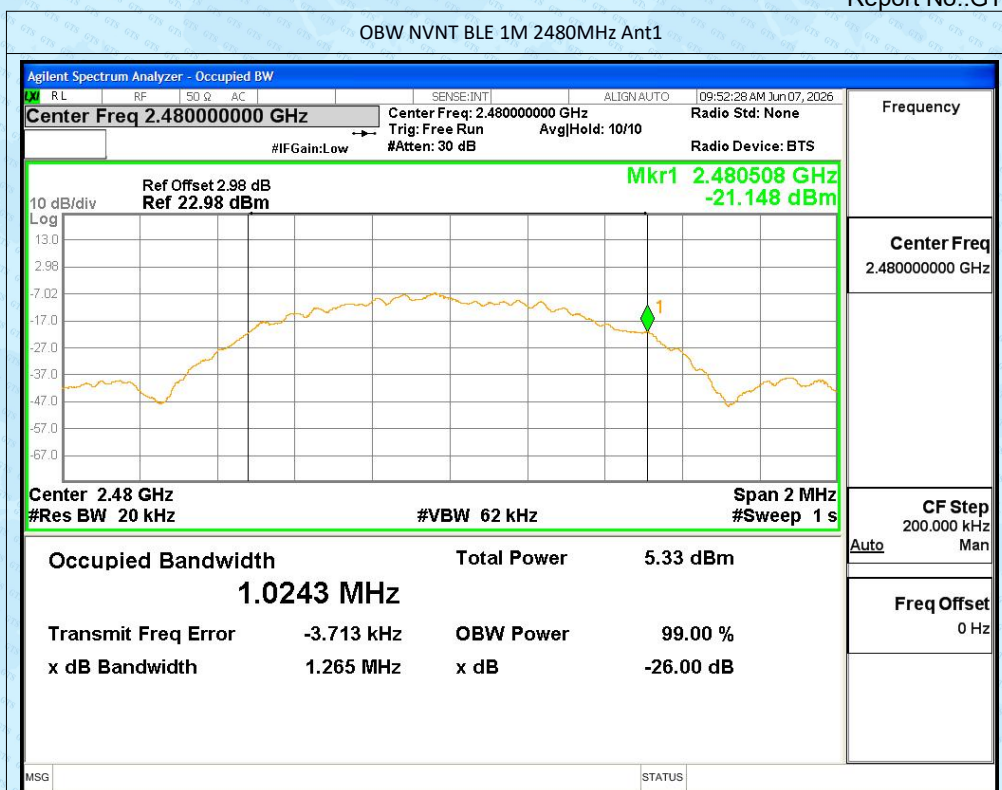
Test Graphs

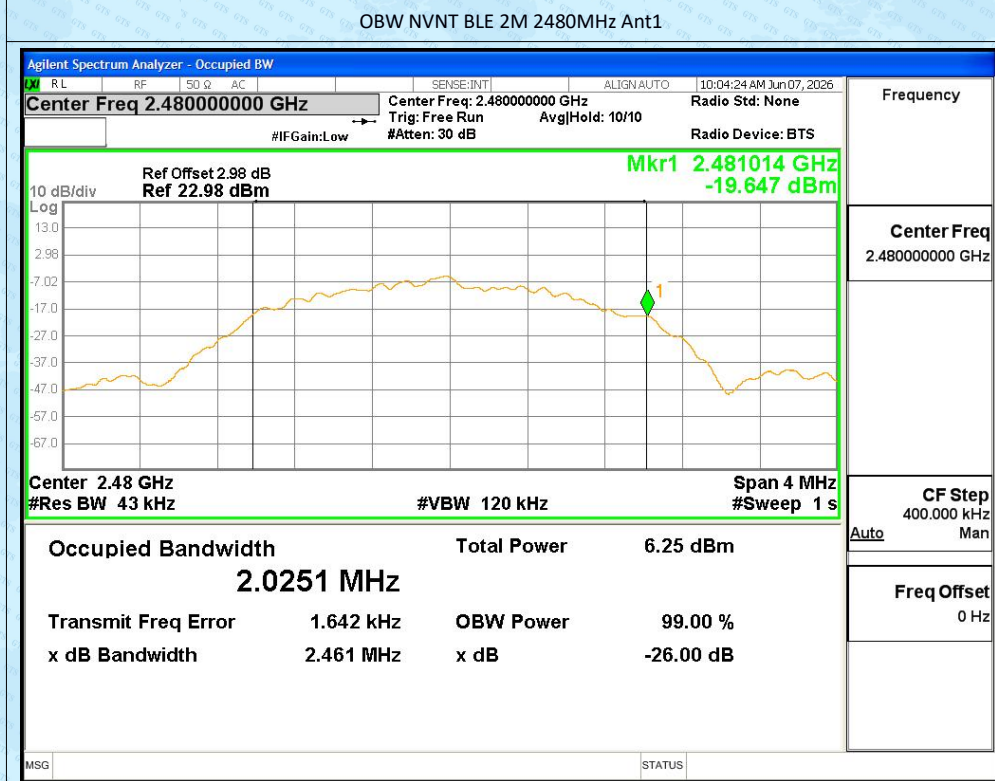
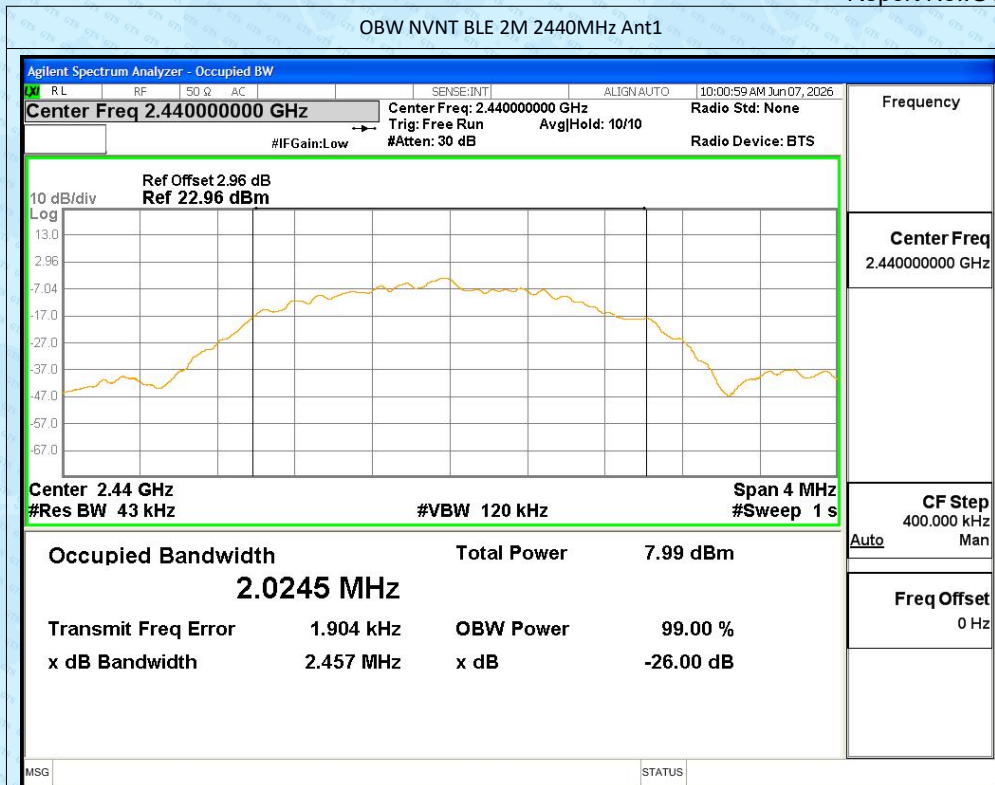
OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1







5.4.8 Transmitter unwanted emissions in the out-of-band domain

Condition	Mode	Frequency (MHz)	Antenna	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	2399.5	-56.3	-10	Pass
				2399.372	-58.18	-10	Pass
				2398.372	-60.08	-20	Pass
				2398.244	-60.13	-20	Pass
		2480		2484	-60.51	-10	Pass
				2484.019	-60.51	-10	Pass
				2485.019	-61.13	-20	Pass
				2485.038	-60.98	-20	Pass
	BLE 2M	2402		2399.5	-27.37	-10	Pass
				2398.5	-45.52	-10	Pass
				2398.475	-45.42	-10	Pass
				2397.475	-59.6	-20	Pass
				2396.475	-61.15	-20	Pass
				2396.45	-60.42	-20	Pass
		2480		2484	-57.16	-10	Pass
				2485	-60.51	-10	Pass
				2485.025	-61.33	-10	Pass
				2486.025	-61.53	-20	Pass
				2487.025	-62.05	-20	Pass
				2487.05	-61.66	-20	Pass

5.4.9 Transmitter unwanted emissions in the spurious domain

The lowest channel				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level (dBm)		
56.40	Vertical	-63.05	-54.00	Pass
96.10	V	-65.53		
30.00	V	-56.88	-36.00	
80.93	V	-70.83		
4804.00	V	-48.25	-30.00	
97.46	Horizontal	-66.74	-54.00	
176.89	H	-67.43		
77.87	H	-74.76	-36.00	
397.63	H	-60.21		
4804.00	H	-46.35	-30.00	
The highest channel				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level (dBm)		
56.40	Vertical	-62.26	-54.00	Pass
96.10	V	-64.36		
30.00	V	-56.62	-36.00	
80.93	V	-69.78		
4960.00	V	-49.25	-30.00	
97.46	Horizontal	-67.42	-54.00	
176.89	H	-65.39		
77.87	H	-64.98	-36.00	
397.63	H	-63.21		
4960.00	H	-45.77	-30.00	

Note: All of the EUT Configure mode were tested and found 1Mbps is the worst mode, the worst case is recorded in this report.

5.4.10 Receiver spurious emissions

The lowest channel				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
30.21	Vertical	-60.93	-57.00	Pass
96.10	V	-59.17		
4804.00	V	-60.45	-47.00	
378.58	Horizontal	-62.36	-57.00	
392.10	H	-63.57		
4804.00	H	-62.39	-47.00	
The highest channel				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
30.21	Vertical	-59.02	-57.00	Pass
96.10	V	-60.36		
4960.00	V	-60.21	-47.00	
378.58	Horizontal	-62.36	-57.00	
392.10	H	-62.37		
4960.00	H	-61.17	-47.00	

Note: All of the EUT Configure mode were tested and found 1Mbps is the worst mode, the worst case is recorded in this report.

5.4.11 Receiver Blocking

Condition	Mode	Frequency (MHz)	Antenna	Wanted Power (dBm)	Blocking Frequency (MHz)	Blocking Power (dBm)	PER (%)	Limit (%)	Verdict
NVNT	BLE 1M	2402	Ant1	-67.89	2380	-33.21	0.20	10	Pass
				-67.89	2300	-33.21	0.50	10	Pass
	BLE 1M	2480		-67.9	2504	-33.21	1.10	10	Pass
				-67.9	2584	-33.21	0.70	10	Pass
NVNT	BLE 2M	2402	Ant1	-64.94	2380	-33.21	0.60	10	Pass
				-64.94	2300	-33.21	1.20	10	Pass
	BLE 2M	2480		-64.94	2504	-33.21	0.80	10	Pass
				-64.94	2584	-33.21	0.10	10	Pass

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